### (19) World Intellectual Property Organization

International Bureau



## 

(43) International Publication Date 24 February 2005 (24.02.2005)

**PCT** 

### (10) International Publication Number WO 2005/016410 A2

(51) International Patent Classification7:

**A61M** 

(21) International Application Number:

PCT/US2004/026252

- (22) International Filing Date: 11 August 2004 (11.08.2004)
- (25) Filing Language:

(26) Publication Language:

English

(30) Priority Data:

60/494,450

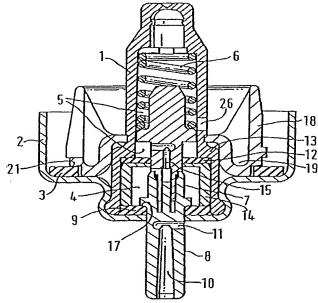
11 August 2003 (11.08.2003)

- (71) Applicant (for all designated States except US): GLAXO GROUP LIMITED [GB/GB]; Glaxo Wellcome House, Berkeley Avenue, Greenford, Middlesex UB6 0NN (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GODFREY, Anne, Pauline [GB/GB]; c/o GlaxoSmithKline, Park Road, Ware, Hertfordshire SG12 ODP (US). MILLER, John, Francis [GB/US]; c/o GlaxoSmithKline, Five Moore Drive, PO Box 13398, Research Triangle Park, 27709 (US). SOM-MERVILLE, Mark, Lee [US/US]; c/o GlaxoSmithKline, Five Moore Drive, PO Box 13398, Research Triangle Park, 27709 (US).

- (74) Agents: LEVY, David J et al.; GlaxoSmithKline, Corporate Intellectual Property Dept, Five Moore Drive, PO Box 13398, Research Triangle Park, NC 27709 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: PHARMACEUTICAL METERED DOSE INHALER AND METHODS RELATING THERETO



(57) Abstract: Methods of preparing elastomeric gasket materials for use in metered dose inhalers that include contacting an elastomeric gasket material to be used in a metered dose inhaler, which gasket material comprises one or more extractable compounds, with a solution comprising an organic solvent under conditions sufficient to extract at least a portion of at least one of the one or more extractable compounds from the elastomeric gasket material are described. Sealing gaskets made by such methods as well as metering valves, metered dose inhalers, and drug products that include such gaskets are also described.



# WO 2005/016410 A2



#### Published:

 without international search report and to be republished upon receipt of that report For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.